

Single Molecule Detection with Surface-
Enhanced Raman Scattering and
Applications in DNA or RNA
Sequencing by Katrin Kneipp, et al.
Serial No.: Not Yet Assigned
Docket No.: M0925.70114US01

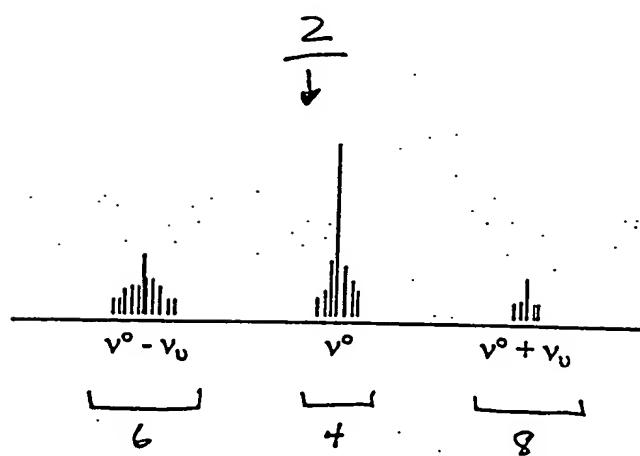
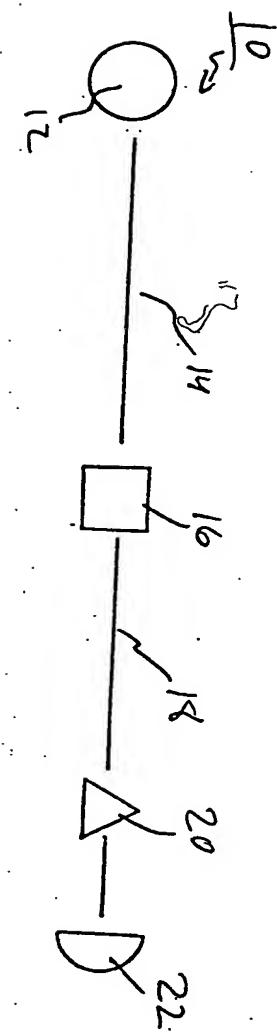
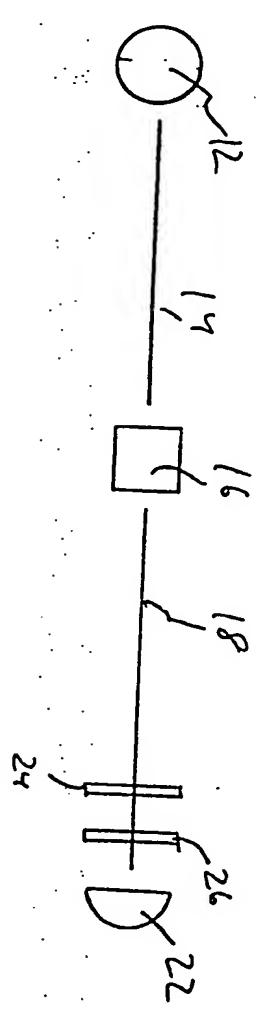


FIGURE 1

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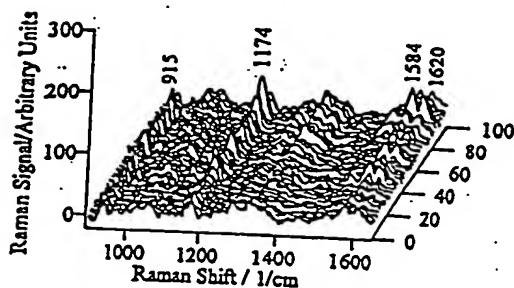


FIG. 4

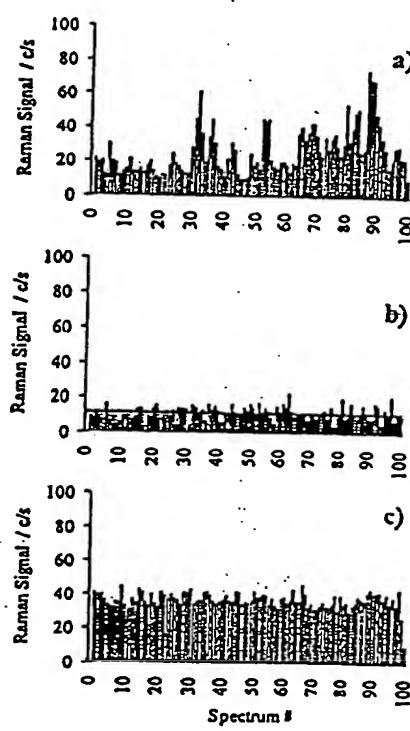


FIG. 5

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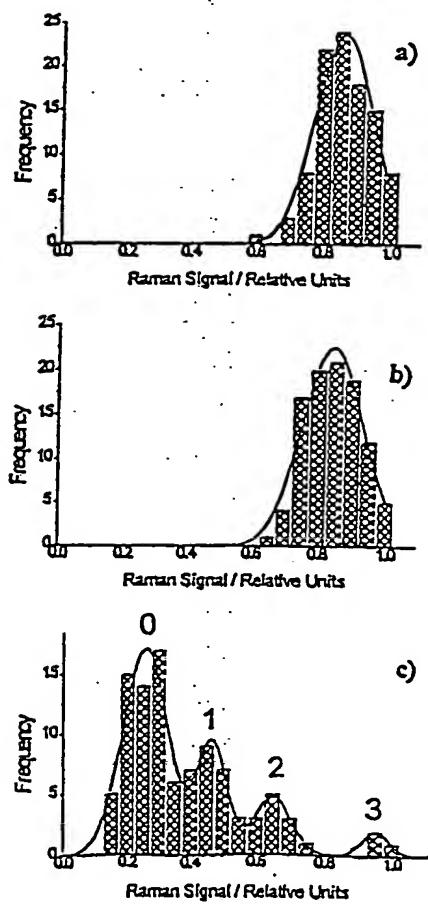


FIG. 6

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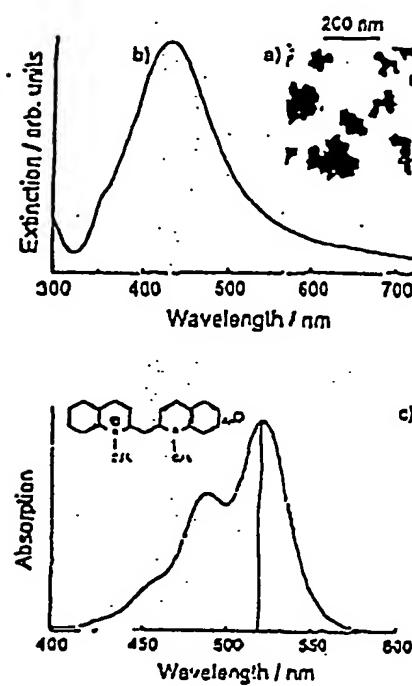


FIG. 7

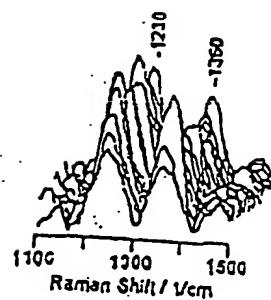
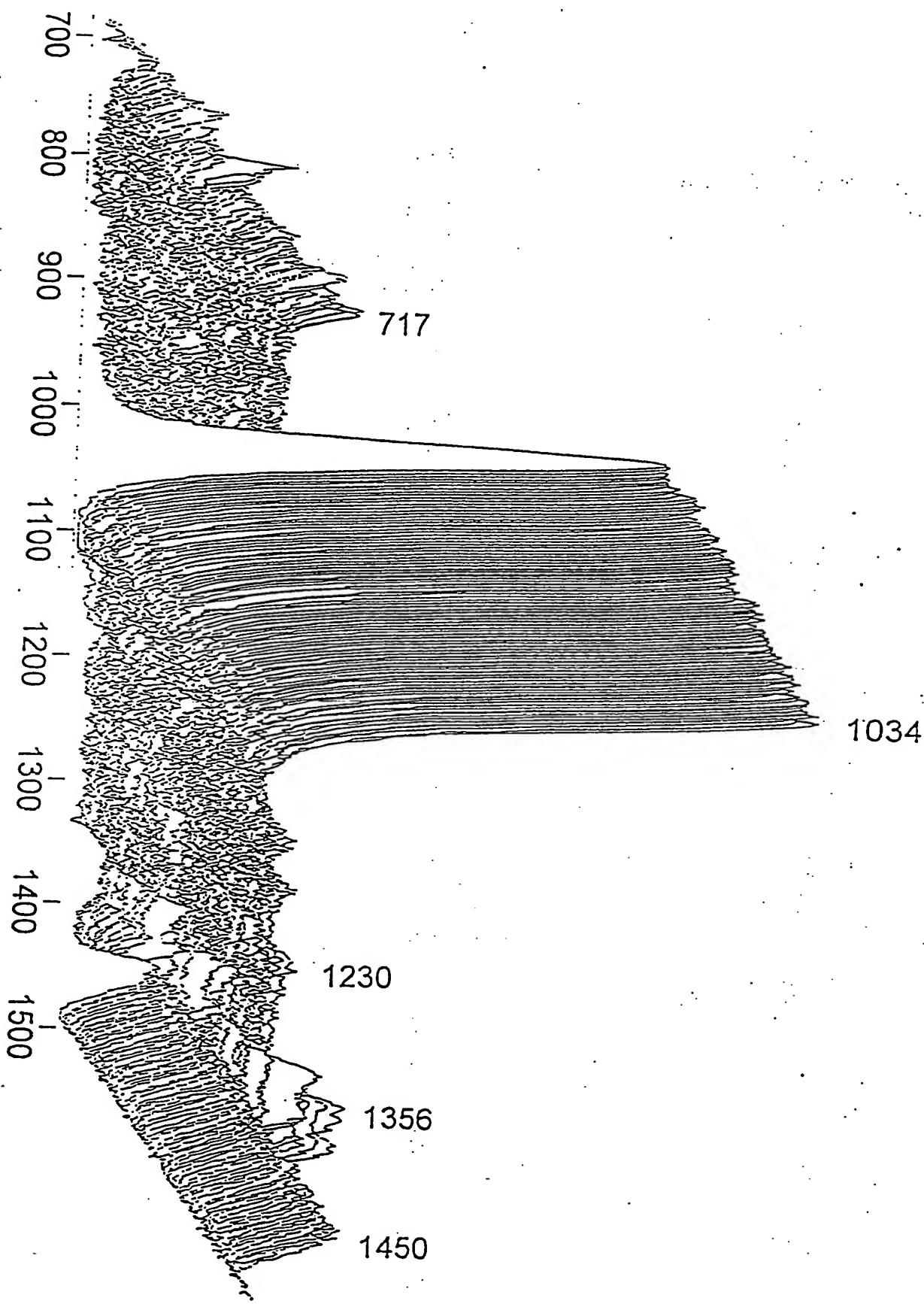


FIG. 9

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Raman Shift / 1/cm

F/G.8



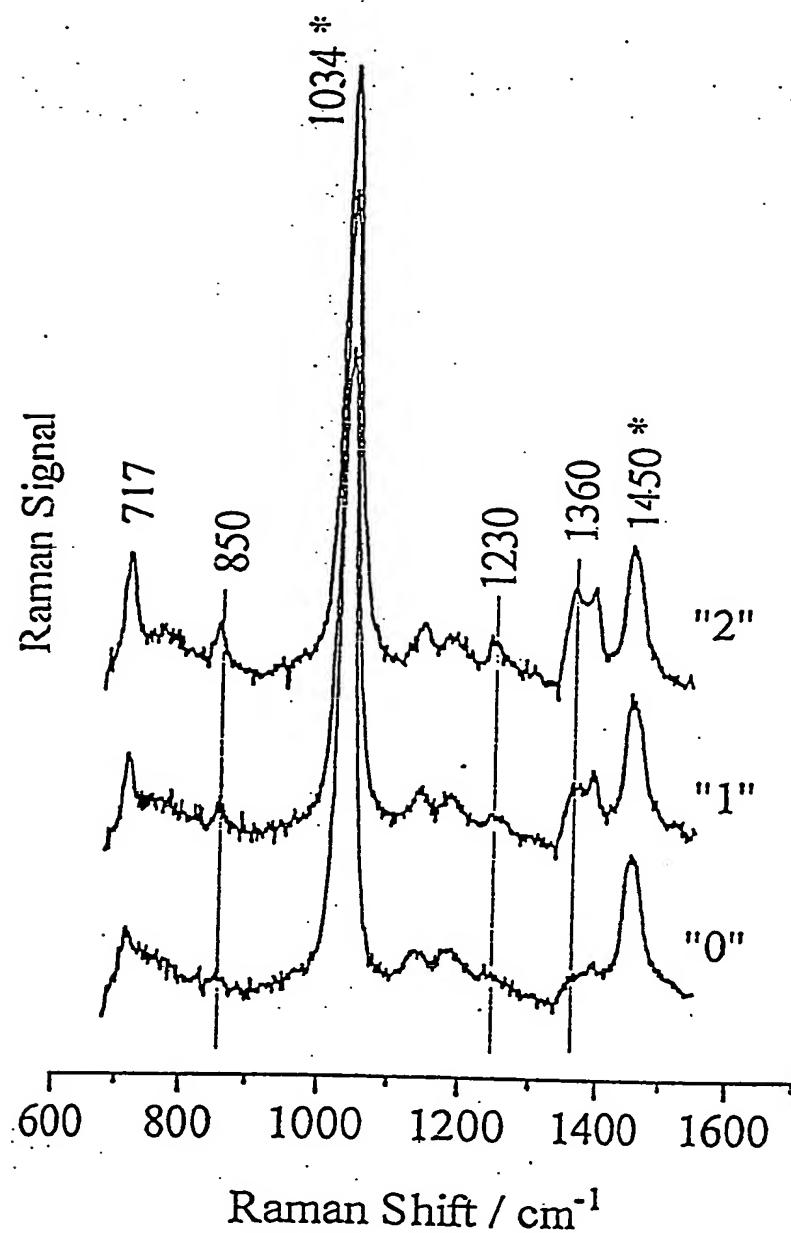


FIG. 10

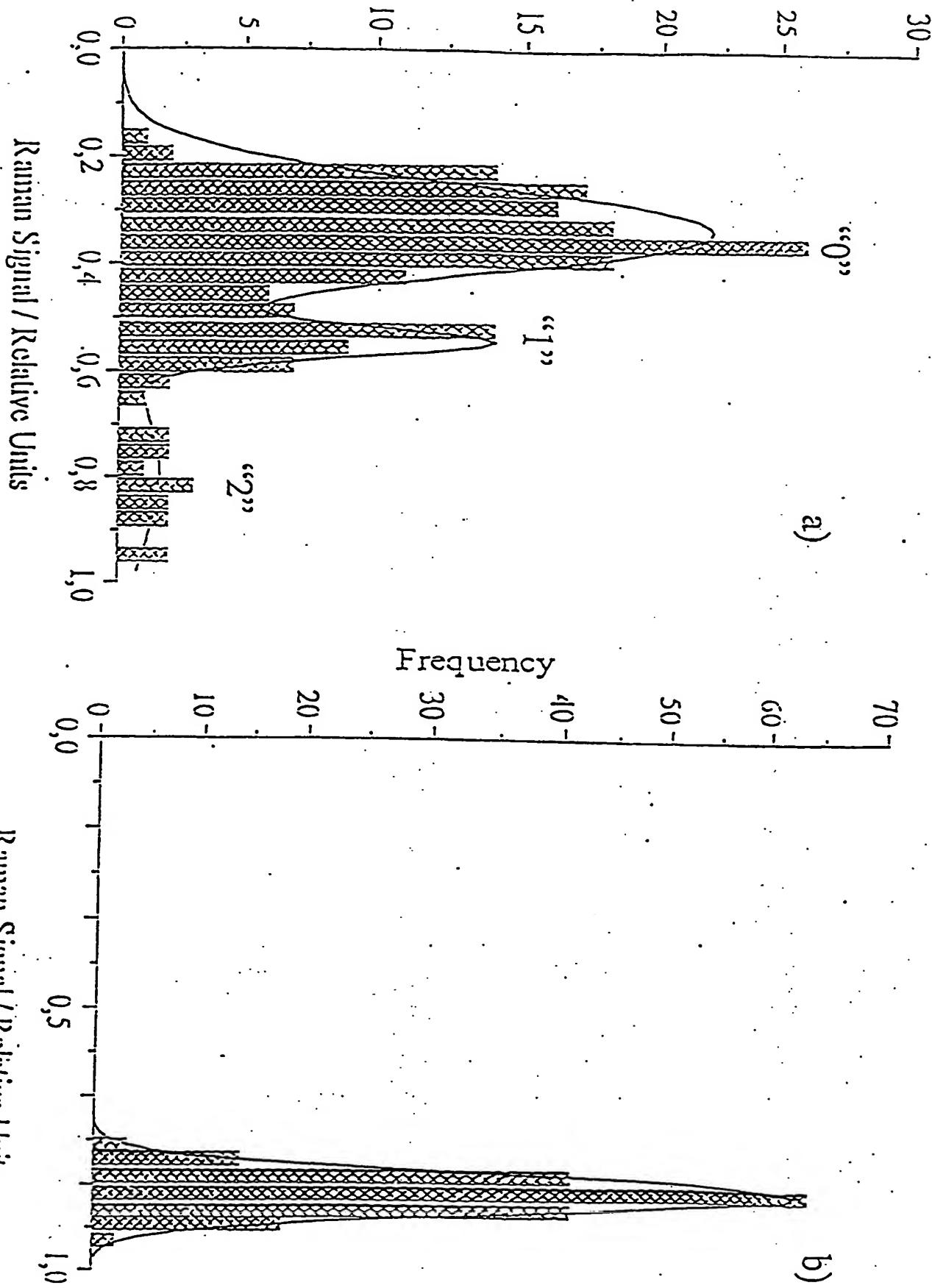


FIG. 11

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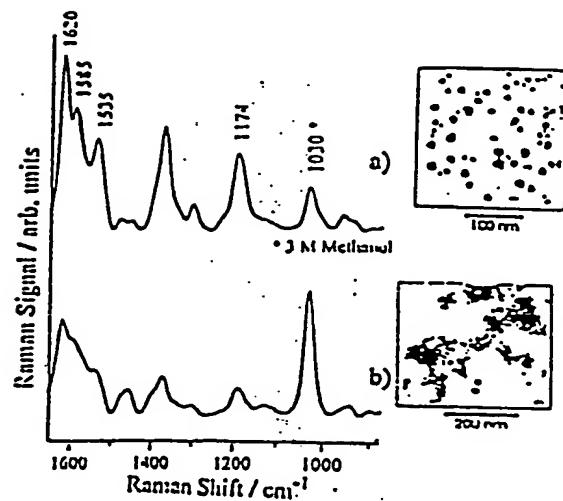
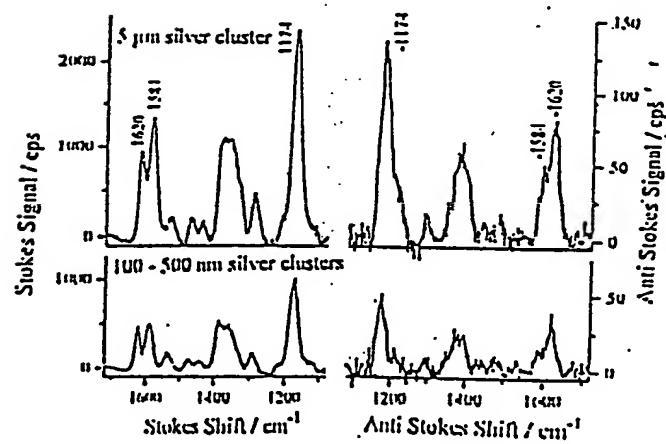


FIG. 12



Stokes and anti-Stokes signals			
Crystal Violet at 1174 cm ⁻¹			
anti-Stokes	Stokes	ratio	location
[cps]	[cps]		(see Fig. 2c)
37	720	4.50E-02	a
53	1160	4.80E-02	b
25	545	5.10E-02	c
132	2550	5.20E-02	d
50	1000	5.00E-02	e
51	1055	4.80E-02	f
Toluene at 1211 cm ⁻¹			
10.4	1520	5.40E-03	

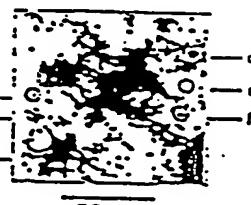


FIG. 13

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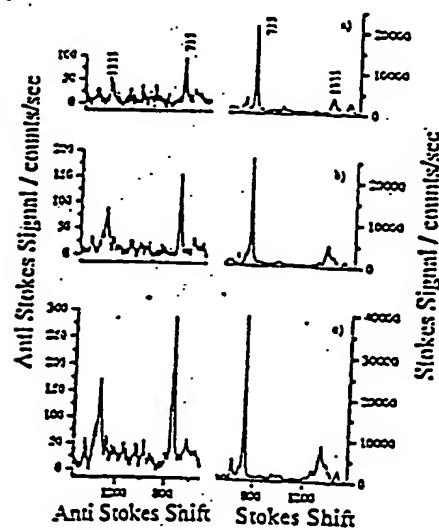


FIG. 14

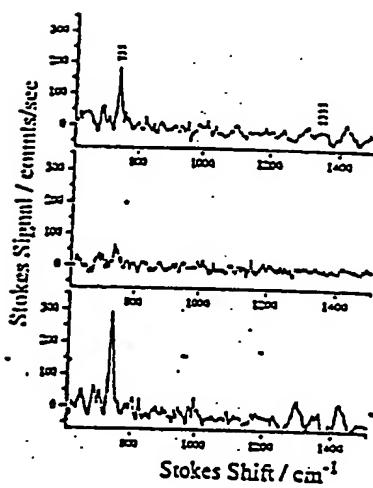


FIG. 15

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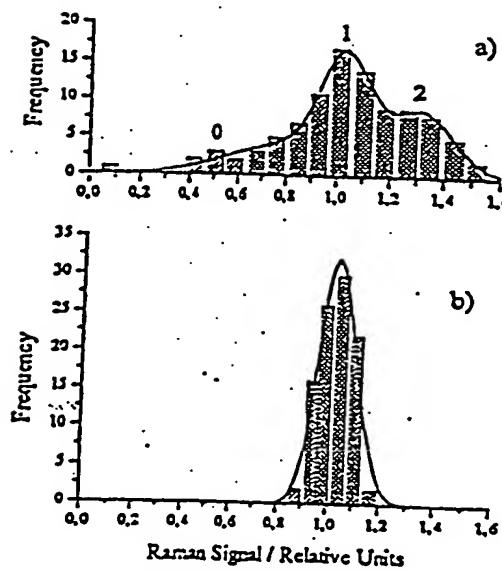


FIG. 16